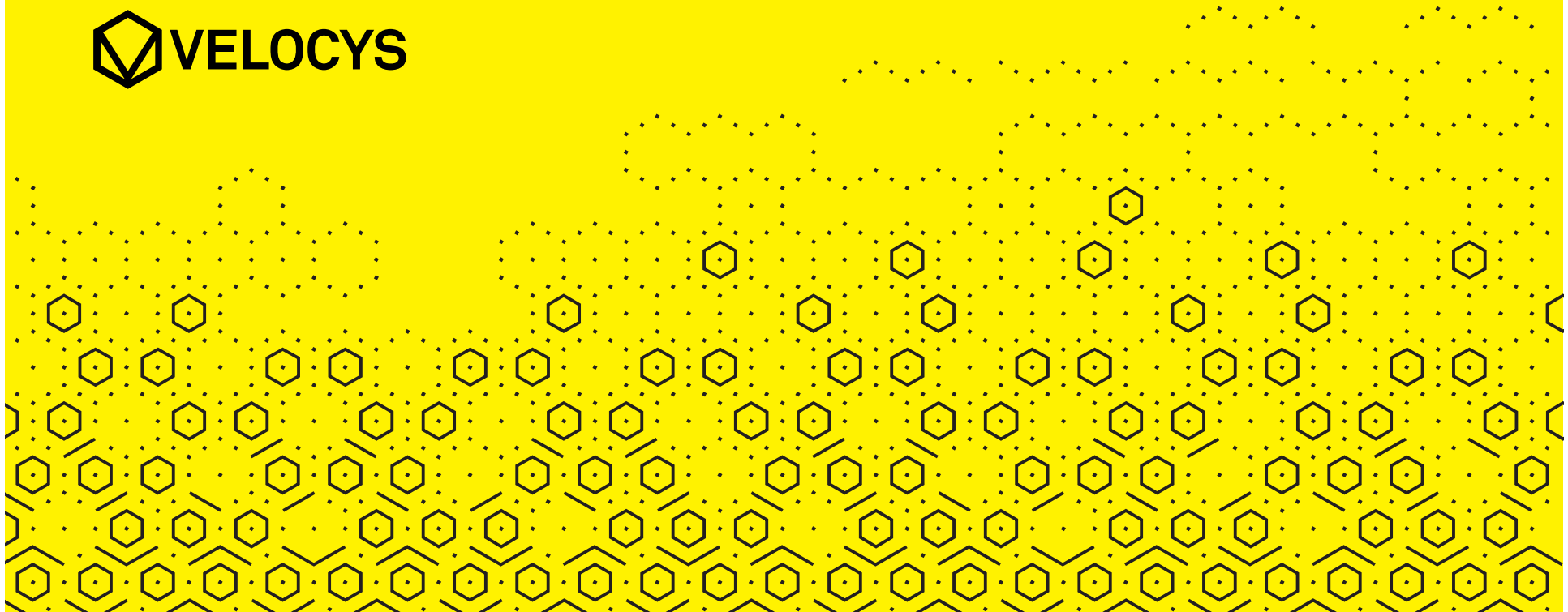


Dr Philipp Stratmann  
Offshore Technology Conference, May 2016

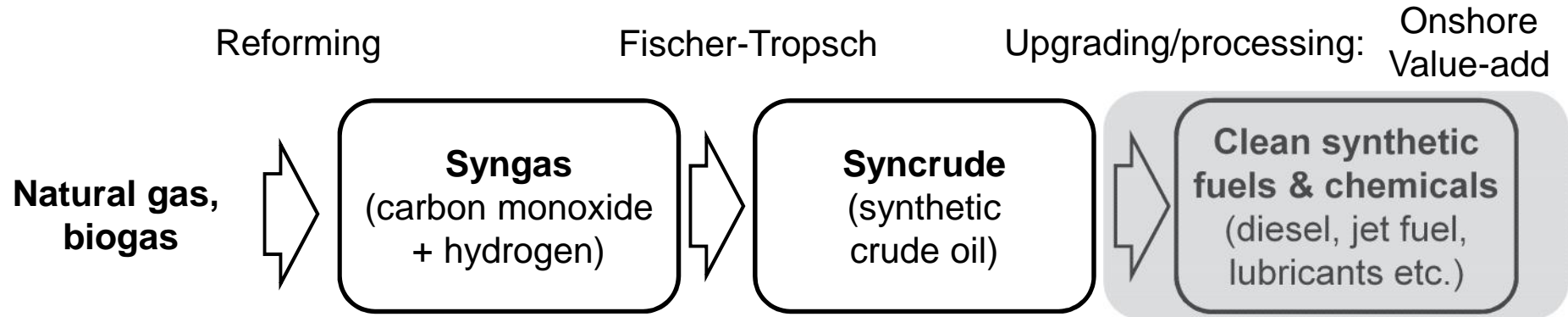
# The onshore roll-out of smaller scale gas-to-liquids

## The offshore view



# The gas-to-liquids (GTL) process

Chemical conversion of gas to refined products



- **Velocys** is the company at the forefront of **smaller scale GTL**
  - 15 years and >\$300 million invested in product development
  - > **26,000 hours** at the pilot/demonstration scale
  - **Commercial** reference plant under **construction**



Possible future **offshore GTL** platform

# Thinking smaller is bringing GTL to the mainstream

## Large-scale economics at smaller scales

Conventional Fischer-Tropsch reactor



Note: Reactor capacities differ considerably



Velocys Fischer-Tropsch reactor

# ENVIA GTL, Oklahoma City

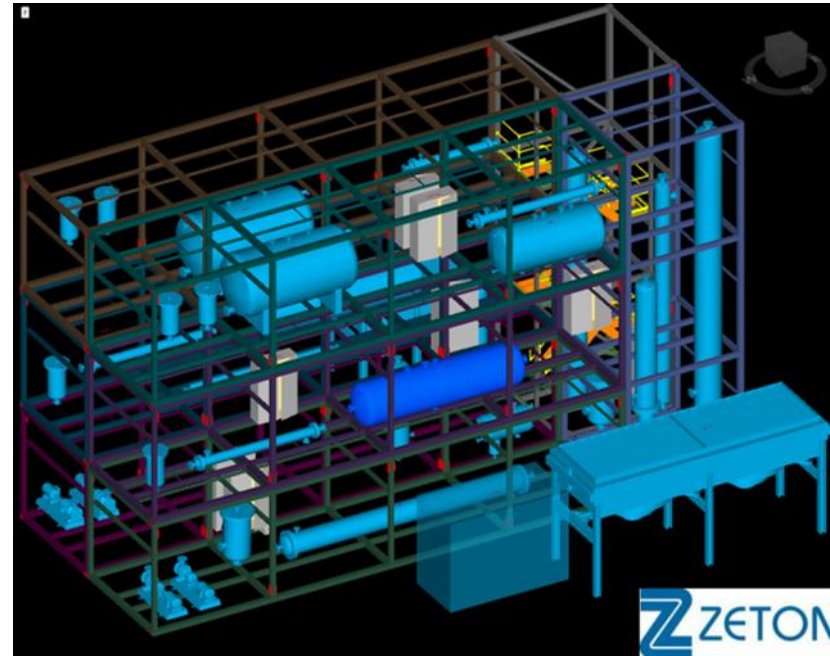
Commercial reference plant under construction



# Future projects: example flaring and offshore

## Reducing the footprint and marinizing the solution

- Pre-feasibility study complete
- Engineering: Zeton
- Syngas: Praxair
- FT: Velocys
- Capacity: 200 - 300 bpd
- **Seeking active input and participation** from the **marine industry**
  - To ensure future GTL solutions adequately address all stakeholders' needs



- Potential for a **joint industry demonstration** to complete marinization & flare reduction capabilities of the solution
  - Could utilize operators' existing onshore assets

# Thank you

**Dr Philipp Stratmann**

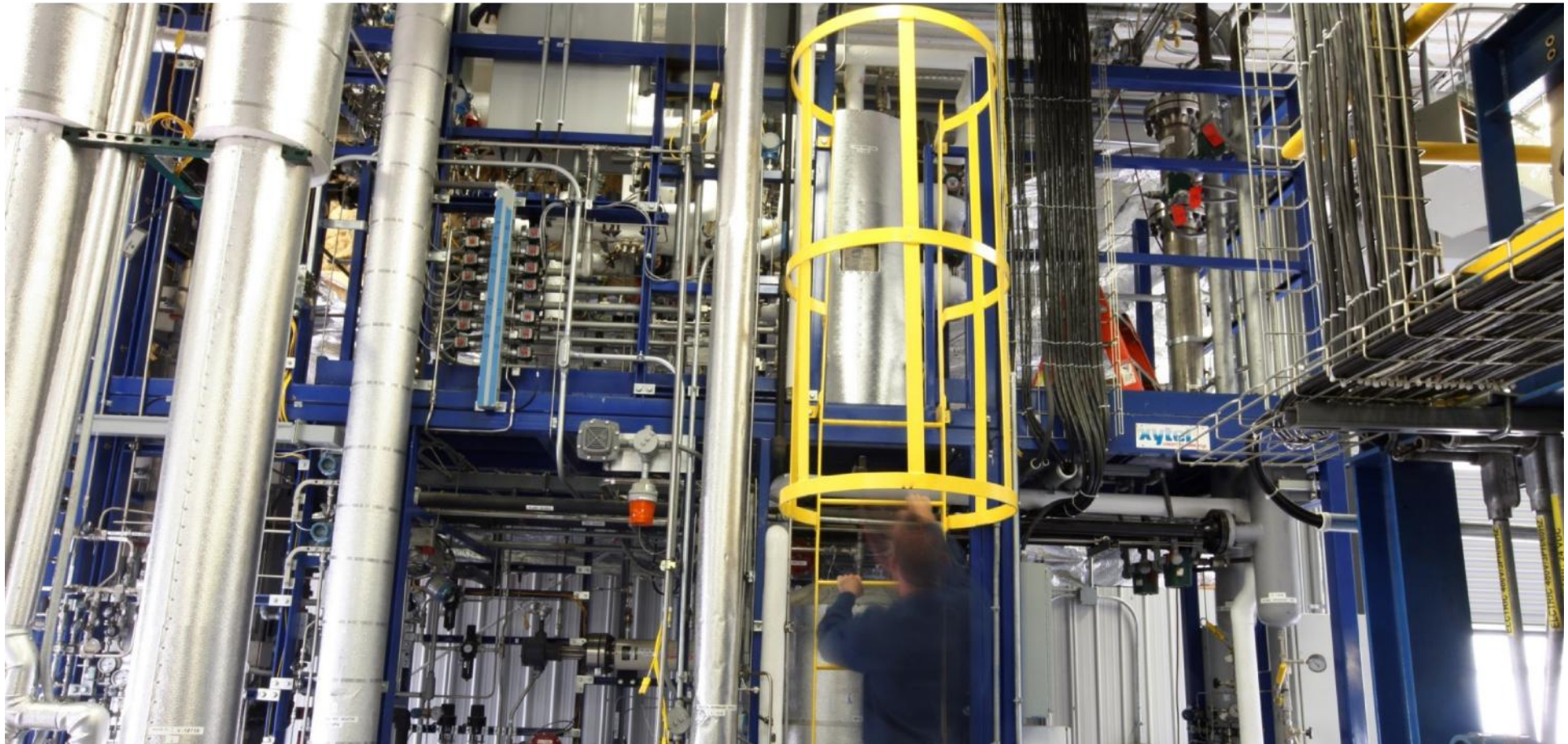
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# Changing the way fuels are made

